THIRD YEAR SURVIVAL AND HEIGHTS FOR 1983 PLANTATIONS

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ABSTRACT

One hundred and twenty six permanent sample plots established in 1981 plantations were remeasured in 1986.

The sample covers three thousand hectares of Crown Land plantations of a total of eleven thousand four hundred and ninety (11,490) hectares planted.

Tables presented show height of planted trees, and the height and density of natural softwood and hardwood species.

TABLE OF CONTENTS

		Page
INTRODUCTION		1
PROVINCIAL AND REGIONAL SUMMARIES - 1983		
Table 1-83	Number of trees planted and percent of plantation areas sampled in each License by species, stock type and area for 1983 plantations.	2
Table 2-83	Mean survival in percent one year and three years after planting by species and stock type for 1983 plantations.	4
Table 3-83	Average height of plantation trees - initial, one year and three years after planting by species and stock type for 1983 plantations.	6
Table 4-83	Percent of third year assessment plots in each density class by License for 1983 plantations.	8
Table 5-83	Density of all natural stems in third year assessment plots by License for 1983 plantations.	9
Table 6-83	Plantation assessment summary - 1983 plantations.	5
Figure 1-83	Third year mean survival percentages for planted trees grouped by species and stock type - 1983 plantations.	21
Figure 2-83	Mean heights for three year old planted trees grouped by species and stock type - 1983 plantations.	22

INTRODUCTION

The Timber Management Branch of the New Brunswick Department of Natural Resources and Energy has been assessing survival and growth in plantations on Crown Land since 1977. This summary report presents information on heights and third year survival for 1983 plantations.

The information is presented in tables and graphs and interpretation of data is left to the reader. Description of the methods used can be found in "Third Year Survival and Heights of 1977 Plantations" - copies of which are available upon request from the Timber Management Branch.

Copies of "Third Year Survival and Heights for 1978, 1979, 1980, 1981 and 1982 Plantations" are also available upon request from the Timber Management Branch.

TABLE 1-83. NUMBER OF TREES PLANTED AND PERCENT OF PLANTATION AREAS SAMPLED IN EACH LICENSE BY SPECIES, STOCK TYPE AND AREA FOR 1983 PLANTATIONS.

LICENSE		BLACK SPRUCE		WHITE SPRUCE	JACK PINE				RED PINE	EASTERN LARCH
		BR[1]	PP[2]	BR	BR	PP	SB[3]	SL[4]	PP	PP
1	Number[5]	387 000	346 400	-	-	402 000	-	-	-	176 000
	Area[6]	147	134	-	-	156	-	-	-	80
	%[7]	100	31	-	-	62	-	-	-	100
2	Number	-	1 991 000	-	-	448 000	-	-	-	-
	Area	-	846	-	-	196	-	-	-	-
	%	-	100	-	-	72	-	-	-	-
3	Number	295 194	679 500	-	451 500	1 096 000	-	-	-	-
	Area	127	302	-	194	490	-	-	-	-
	%	100	100	-	100	100	-	-	-	-
4	Number	-	474 500	-	76 000	679 333	172 833	133 000	242 000	-
	Area	-	238	-	41	329	85	65	121	-
	%	-	100	-	100	100	100	100	100	-
5	Number	-	158 000	-	-	156 000	-	-	-	-
	Area	-	67	-	-	70	-	-	-	-
	%	-	100	-	-	92	-	-	-	-
6	Number	668 000	1 027 500	928 000	249 500	1 316 000	-	-	-	-
	Area	324	494	450	119	550	-	-	-	-
	%	96	87	96	64	88	-	-	-	-
7	Number	252 916	-	466 000	774 000	181 000	274 612	-	-	-
	Area	190	-	255	339	88	913	-	-	-
	%	100	-	100	100	100	100	-	-	-
8	Number	322 000	859 000	-	-	-	-	-	-	-
	Area	227	397	-	-	-	-	-	-	-
	%	100	100	-	-	-	-	-	-	-

TABLE 1-83. CONTINUED

LICENSE		BLACK SPRUCE		WHITE SPRUCE	JACK PINE				RED PINE	EASTERN LARCH
		BR	PP	BR	BR	PP	SB	SL	PP	PP
9	Number	347 000	249 000	-	-	539 000	-	-	-	-
	Area	154	118	-	-	253	-	-	-	-
	%	100	97	-	-	92	-	-	-	-
10	Number	-	1 715 520	-	-	-	-	-	-	-
	Area	-	792	-	-	-	-	-	-	-
	%	-	96	-	-	-	-	-	-	-

[1] Bare Root Stock Type
[2] Paper Pot Stock Type
[3] Styroblock Stock Type
[4] Spencer Lemaire Stock Type
[5] Number of Trees Planted
[6] Area Planted in Hectares
[7] Percent of Areas Sampled

TABLE 2-83. MEAN SURVIVAL IN PERCENT ONE YEAR AND THREE YEARS AFTER PLANTING BY SPECIES AND STOCK TYPE FOR 1983 PLANTATIONS.

LICENSE		BLACK SPRUCE		WHITE SPRUCE	JACK PINE				RED PINE	EASTERN LARCH
		BR[1]	PP[2]	BR	BR	PP	SB[3]	SL[4]	PP	PP
	1st Year	68	85	-	-	89	-	-	-	85
1	3rd Year	65	78	-	-	85	-	-	-	85
	1st Year	-	88	-	-	91	-	-	-	-
2	3rd Year	-	86	-	-	90	-	-	-	-
	1st Year	68	83	-	87	82	-	-	-	-
3	3rd Year	58	77	-	81	77	-	-	-	-
	1st Year	-	84	-	69	85	94	86	84	-
4	3rd Year	-	83	-	69	83	93	86	68	-
	1st Year	-	90	-	-	87	-	-	-	-
5	3rd Year	-	88	-	-	87	-	-	-	-
	1st Year	77	92	71	89	90	-	-	-	-
6	3rd Year	74	90	66	86	87	-	-	-	-
	1st Year	62	-	81	90	93	90	-	-	-
7	3rd Year	59	-	76	86	92	88	-	-	-
	1st Year	71	88	-	-	-	-	-	-	-
8	3rd Year	65	82	-	-	-	-	-	-	-
	1st Year	69	80	-	-	81	-	-	-	-
9	3rd Year	63	76	-	-	69	-	-	-	-
	1st Year	-	75	-	-	-	-	-	-	-
10	3rd Year	-	62	-	-	-	-	-	-	-

TABLE 2-83. CONTINUED

LICENSE		BLACK SPRUCE		WHITE SPRUCE	JACK PINE				RED PINE	EASTERN LARCH
		BR	PP	BR	BR	PP	SB	SL	PP	PP
Provincial Average	1st Year	71	85	72	88	87	92	86	84	85
	3rd Year	67	79	67	84	83	90	86	68	85

[1] Bare Root Stock Type
[2] Paper Pot Stock Type
[3] Styroblock Stock Type
[4] Spencer Lemaire Stock Type

TABLE 3-83. AVERAGE HEIGHT OF PLANTATION TREES-INITIAL, ONE YEAR AND THREE YEARS AFTER PLANTING BY SPECIES AND STOCK TYPE FOR 1983 PLANTATIONS.

LICENSE		BLACK SPRUCE		WHITE SPRUCE	JACK PINE				RED PINE	EASTERN LARCH
		BR[1]	PP[2]	BR	BR	PP	SB[3]	SL[4]	PP	PP
1	Initial[5]	19	13	-	-	7	-	-	-	23
	1st Year[6]	26	23	-	-	19	-	-	-	34
	3rd Year [7]	49	47	-	-	56	-	-	-	90
2	Initial	-	13	-	-	7	-	-	-	-
	1st Year	-	26	-	-	19	-	-	-	-
	3rd Year	-	51	-	-	59	-	-	-	-
3	Initial	23	8	-	16	6	-	-	-	-
	1st Year	29	21	-	34	15	-	-	-	-
	3rd Year	50	46	-	95	50	-	-	-	-
4	Initial	-	14	-	15	11	23	26	6	-
	1st Year	-	27	-	32	25	34	39	12	-
	3rd Year	-	48	-	97	77	100	104	22	-
5	Initial	-	8	-	-	12	-	-	-	-
	1st Year	-	19	-	-	29	-	-	-	-
	3rd Year	-	42	-	-	87	-	-	-	-
6	Initial	27	14	22	27	13	-	-	-	-
	1st Year	35	26	30	51	26	-	-	-	-
	3rd Year	65	52	57	132	88	-	-	-	-
7	Initial	26	-	25	27	16	11	-	-	-
	1st Year	31	-	28	42	31	26	-	-	-
	3rd Year	58	-	61	107	77	80	-	-	-
8	Initial	23	14	-	-	-	-	-	-	-
	1st Year	28	28	-	-	-	-	-	-	-
	3rd Year	57	53	-	-	-	-	-	-	-
9	Initial	22	12	-	-	7	-	-	-	-
	1st Year	26	24	-	-	19	-	-	-	-
	3rd Year	54	53	-	-	71	-	-	-	-

TABLE 3-83. CONTINUED

LICENSE		BLACK SPRUCE		WHITE SPRUCE	JACK PINE				RED PINE	EASTERN LARCH
		BR	PP	BR	BR	PP	SB	SL	PP	PP
10	Initial	-	10	-	-	-	-	-	-	-
	1st Year	-	21	-	-	-	-	-	-	-
	3rd Year	-	44	-	-	-	-	-	-	-
Prov.	Initial	24	12	23	24	10	16	26	6	23
	1st Year	30	24	30	43	22	30	39	12	34
	3rd Year	58	49	57	112	70	89	104	22	90

[1] Bare Root Stock Type
[2] Paper Pot Stock Type
[3] Styroblock Stock Type
[4] Spencer Lemaire
[5] Height in cm at time of planting
[6] Height in cm one year after planting
[7] Height in cm three years after planting

Table 4-83. PERCENT OF THIRD YEAR ASSESSMENT PLOTS IN EACH DENSITY CLASS* BY LICENSE FOR 1983 PLANTATIONS.

LICENSE	0-1500			1501-3000			3001+		
1	0[a]	100[b]	100[c]	100[a]	0[b]	0[c]	0[a]	0[b]	0[c]
2	6	100	86	94	0	7	0	0	7
3	0	76	42	100	24	31	0	0	27
4	0	100	100	100	0	0	0	0	0
5	0	75	20	100	25	40	0	0	40
6	0	86	59	100	14	35	0	0	6
7	9	100	90	91	0	10	0	0	0
8	0	100	60	100	0	40	0	0	0
9	0	100	75	100	0	0	0	0	25
10	0	100	93	100	0	7	0	0	0

* 5th year standards
[a] Planted trees only
[b] Includes natural softwood regeneration other than balsam fir
[c] Includes all natural softwood regeneration

TABLE 5-83
DENSITY OF ALL NATURAL STEMS IN THIRD YEAR ASSESSMENT PLOTS
BY LICENSE FOR 1983 PLANTATIONS

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA)									
			NATURAL SOFTWOOD				NATURAL HARDWOOD					
			SPRUCE	PINE	FIR	OTHER	MAPLE	YELLOW BIRCH	BEECH	WHITE BIRCH	ASPEN	OTHER
Upsalquitch	White's Brook	1011107838P	0	0	0	0	0	0	0	0	0	0
	Charlo River	1011108838P	0	0	139	0	69	69	0	12	0	0
	Akroyd Brook	1011109838P	0	0	637	0	0	0	0	0	64	0
	L. Tetagouche L	1011110838P	25	0	166	0	0	0	0	38	0	0
	S. Tetagouche	1011111838P	0	0	0	0	0	0	0	0	0	0
	Akroyd Brook	1011112838P	0	0	891	0	318	0	0	0	127	0
	Akroyd Brook	1011113838P	0	0	297	0	42	0	0	1401	42	0
	North Charlo	1011114838P	64	0	191	64	1019	0	0	1146	127	0
	N.Charlo River	1011115838P	0	0	255	0	0	0	0	5348	0	0
	Jacquet R.Lakes	1011116838P	0	0	0	0	0	0	0	0	0	0
LICENSE	AVERAGE		-9	0	-227	3	100	18	0	294	24	0
Nepisiguit	Anaconda Mines	1020014838P	16	0	143	0	80	0	0	1178	0	0
	S.Br. 40 Mile Bk	1020234838P	35	12	463	0	46	0	0	891	0	0
	S. 44 Mile Bk	1020235838P	0	0	0	0	0	0	0	637	32	0
	Arsenault Road	1020240838P	280	0	382	0	0	0	0	25	0	0
	Arsenault Road	1020241838P	25	0	3081	0	127	0	0	76	0	0
	Middle River	1020245838P	0	0	127	0	64	0	0	64	700	0
	S. 44 Mile Bk	1020246838P	0	0	2928	0	64	0	0	2165	0	0
	Arsenault Loop	1020254838P	255	0	255	0	0	0	0	0	0	0
	California Lake	1020271838P	212	42	467	127	42	0	0	1316	42	0
	Rocky Lake	1020276838P	255	64	191	0	0	0	0	4456	0	0
	Lucky Lake	1020278838P	0	0	197	1158	46	0	0	127	58	0
	Wildcat Road	1020290838P	0	0	0	0	95	0	0	127	0	0
	Anaconda Mines	1020295838P	174	0	926	0	127	0	0	4769	46	0
	Nepisiguit Riv.	1029585838P	334	0	907	0	0	80	0	3915	1003	0
	Gordon Meadow Bk	1029588838P	42	382	0	0	0	0	0	0	0	0

TABLE 5-83 CONTINUED

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD MAPLE	YELLOW BIRCH	BEECH	WHITE BIRCH	ASPEN	OTHER
Nepisiguit	Gordon Meadow Bk	1029589838P	0	976	0	0	0	0	0	21	0	0
	Wildcat Road	1029636838P	0	16	509	0	64	0	0	557	80	0
LICENSE AVERAGE			87	77	634	135	53	7	0	1384	118	0
Lower Miramichi	Shorecamp Brook	2030329838P	0	0	1401	0	382	0	0	509	4966	0
	Shorecamp Brook	2030330838P	923	64	9900	95	223	0	0	32	0	0
	Shorecamp Brook	2030331838P	891	191	1719	0	955	0	0	5857	3692	0
	Shorecamp Brook	2030332838P	1910	0	7894	42	0	0	0	679	170	0
	Shorecamp Brook	2030333838P	700	32	6812	32	32	0	0	0	0	0
	Shorecamp Brook	2030334838P	255	0	2865	0	0	0	0	64	0	0
	Shorecamp Brook	2030335838P	1146	255	13815	0	255	0	0	191	64	0
	Redstone Brook	2030336838P	0	0	637	127	191	0	0	0	0	0
	Redstone Brook	2030337838P	0	0	477	0	191	159	0	637	95	414
	Otter Brook	2030338838P	80	0	732	143	0	80	0	32	95	0
	Black Brook	2030339838P	955	115	942	76	153	0	0	1146	611	0
	Black Brook	2030340838P	1783	255	0	0	0	0	0	127	1146	0
	Black Brook	2030341838P	722	255	170	0	170	0	0	212	170	0
	Blackvfire Tower	2030342838P	2419	297	9549	0	467	0	0	1910	670	0
	Blackvfire Tower	2030343838P	2037	191	255	0	127	0	0	4902	382	0
	Blackvfire Tower	2030344838P	509	0	0	0	0	0	0	255	0	0
	Blackvfire Tower	2030345838P	403	127	764	0	85	0	0	1358	85	0
	Blackvfire Tower	2030346838P	1751	191	64	0	350	0	0	1146	32	0
	Salmon Brook	2030347838P	458	25	0	0	0	0	0	51	51	0
	East Sabbies	2030348838P	467	212	3141	0	382	424	42	2037	0	0
	East Sabbies	2030349838P	1273	76	1120	0	229	0	0	1299	2750	0
	West Sabbies	2030350838P	127	0	1273	0	891	0	0	764	0	0
	Six Mile Bk	2030351838P	0	191	318	0	382	0	0	3565	4647	0
	Six Mile Bk	2030352838P	0	0	1528	0	255	0	0	127	509	0
	Six Mile Bk	2030353838P	764	1019	955	0	191	0	0	4456	191	0

TABLE 5-83 CONTINUED

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD MAPLE	YELLOW BIRCH	BEECH	WHITE BIRCH	ASPEN	OTHER
Lower Miramichi	Six Mile Bk	203035483BP	0	0	127	0	191	0	0	7067	0	0
	Six Mile Bk	203035583BP	255	637	1273	64	318	0	0	2610	127	0
	Six Mile Bk	203035683BP	212	127	85	0	85	0	0	2037	1146	0
	Blackvfire Tower	203036083BP	318	0	191	0	127	0	0	1114	1019	0
LICENSE AVERAGE			717	123	2181	34	182	27	1	1245	615	17
Upper Miramichi	Ba Nepisiguit R	104051083BP	53	0	1061	0	0	0	0	1390	0	0
	Bartibog	204000583BP	0	0	0	0	0	0	0	170	42	0
	Portage River	204000883BP	212	0	191	0	488	0	0	340	1846	0
	Bartibog	204050083BP	149	0	42	0	42	0	0	361	21	0
	Lee Brook	204050183BP	139	12	0	12	127	0	0	347	116	0
	McKendrick Lake	204050283BP	0	0	0	0	21	0	0	5475	3459	0
	Portage River	204050383BP	433	115	64	0	446	0	0	13	2979	0
LICENSE AVERAGE			160	24	274	2	170	0	0	1078	1170	0
Kent	Desherbiers	205020283BP	424	0	2631	42	42	0	0	0	424	0
	Desherbiers	205020383BP	1867	0	594	0	85	0	0	1316	1783	1655
	Kent Junction	205020483BP	306	0	7971	0	25	0	0	1655	3514	0
	Kent Junction	205020583BP	0	0	3756	0	64	0	0	64	127	0
	Bass River	205020683BP	318	0	509	0	149	0	0	934	1889	0
LICENSE AVERAGE			543	0	3163	7	80	0	0	945	1883	261
Queens Charlotte	E. Burntland Bk	206997283BP	0	0	0	0	127	0	0	0	85	0
	Blue Rock Bk Rd	206998983BP	51	140	331	0	420	0	0	446	13	0
	Wildcat Bk	206999283BP	127	91	91	0	200	0	0	73	182	0
	Otter Brook Rd	206999383BP	1310	382	309	127	73	0	0	55	18	0
	E. Burntland Bk	206999483BP	1070	102	535	0	25	0	0	76	178	0

TABLE 5-83 CONTINUED

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD MAPLE	YELLOW BIRCH	BEECH	WHITE BIRCH	ASPEN	OTHER
Queens Charlotte	Leighton Bk	206999883BP	191	433	802	0	38	0	0	166	25	0
	Gordon Bk	306998683BP	64	0	1846	0	0	0	0	191	0	0
	Gordon Bk	306998783BP	42	21	764	0	0	0	0	21	0	0
	Bronson	306998883BP	417	324	1308	12	2859	12	0	9538	1146	81
	Gundy Lake	406000983BP	16	0	0	0	0	1512	0	5348	143	32
	West Long Lake	406002583BP	357	0	0	0	25	0	0	25	0	0
	Rocky Lake	406002883BP	2165	0	191	0	0	0	0	4043	0	0
	Wellington Lake	406002983BP	42	0	212	0	127	3523	0	14430	85	0
	West Long Lake	406993883BP	1095	76	306	0	153	0	0	8913	0	0
	Pleasant Ridge	406994083BP	1429	170	1514	14	0	127	0	2391	14	0
	Pleasant Ridge	406994183BP	223	0	923	32	0	0	0	32	32	0
	S. Oromocto Lake	406994583BP	80	0	16	0	64	143	0	2085	0	0
	Wellington Lake	406994683BP	859	0	0	0	64	0	0	286	64	0
	Pocologan Lakes	406994783BP	255	0	0	0	32	3565	0	4297	16	0
	Mount Pleasant	406994883BP	64	0	32	0	159	32	32	0	0	0
	Shin Creek Rd	406994983BP	0	42	1549	0	297	0	0	1952	127	0
	Lake Anthony	406995083BP	446	0	286	0	32	0	0	286	0	0
LICENSE AVERAGE			452	114	549	9	321	398	1	2569	136	8
Fundy	Little Salmon R	307000783BP	0	0	0	0	0	395	0	0	0	13
	Felix Brook	307006283BP	85	0	424	0	85	42	0	3183	0	4244
	Goose Creek	307006683BP	0	0	32	0	111	1703	0	6175	16	0
	Mechanic Lake	307006783BP	64	0	350	0	0	0	0	350	0	0
	Goggin Road	307006883BP	0	0	0	0	0	0	0	0	0	0
	New Scotland	307998883BP	414	0	16	0	0	0	0	0	0.	0
	Lakeview	307998983BP	25	0	76	0	0	0	0	0	0	25
	Sproule Sett	307999083BP	255	0	1910	0	0	0	0	382	0	1273
	Adamsville	307999183BP	85	0	863	0	835	0	0	1429	3098	283
	Porcupine Brook	307999283BP	523	241	424	0	141	0	0	0	127	14

TABLE 5-83 CONTINUED

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD MAPLE	YELLOW BIRCH	BEECH	WHITE BIRCH	ASPEN	OTHER
Fundy	Victor Lake	3079993838P	0	0	255	0	0	0	0	0	0	0
	Canaan	3079996838P	255	0	637	0	637	0	0	5857	127	3565
LICENSE AVERAGE			153	33	278	0	163	272	0	1222	451	315
York	Long Reach	4081005838P	71	0	608	28	14	0	0	71	0	14
	Big Brook	4081006838P	14	0	424	0	2023	14	0	127	57	0
	Williamsburg	4081007838P	191	0	1369	0	891	0	0	541	0	0
	Dinnen Woods	4081008838P	0	16	95	0	0	16	0	191	48	32
	McLean Brook	4081009838P	1146	0	1401	0	0	0	0	3565	0	0
LICENSE AVERAGE			86	4	546	8	706	8	0	292	29	12
Carleton	Gorby Gulch Bk	4099001838P	302	0	6096	0	0	0	0	48	16	0
	Gorby Gulch	4099003838P	21	0	615	0	0	0	0	42	21	0
	Ryan Brook	4099004838P	0	0	346	0	346	0	0	0	36	0
	Shikatehawk	4099005838P	0	0	346	0	0	0	0	473	18	0
	Gorby Gulch	4099006838P	286	0	2833	0	32	0	0	286	0	0
	Ryan Brook C	4099007838P	0	0	327	0	1091	0	0	218	55	0
	Ryan Brook A	4099008838P	85	0	1160	28	651	28	28	1457	0	42
	Pocologan Lakes	4099947838P	0	0	509	0	0	0	0	509	0	0
LICENSE AVERAGE			91	0	1671	5	327	5	5	413	21	8
Restigouche	W Br Gounamitz	5100054838P	0	0	891	0	255	0	0	0	0	0
Tobique	W Br Gounamitz	5100055838P	0	0	0	0	0	0	0	764	0	0
	W Br Gounamitz	5100056838P	0	0	318	0	1655	64	0	509	0	0
	W Br Gounamitz	5100058838P	127	0	1091	0	0	673	0	3893	36	36
	N Br Gounamitz	5100062838P	99	0	2617	0	1825	1203	0	3296	0	0
	N Br Gounamitz	5100064838P	42	0	764	0	1952	1231	0	3268	0	0

TABLE 5-83 CONTINUED

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD MAPLE	YELLOW BIRCH	BEECH	WHITE BIRCH	ASPEN	OTHER
Restigouche	Five Fingers Bk	5100065838P	0	0	0	0	0	0	0	0	0	0
Tobique	Five Fingers Bk	5100066838P	0	0	127	0	0	0	0	0	255	0
	Little Main Res	5100067838P	0	0	48	0	255	80	0	334	0	0
	W Br Gounamitz	5100073838P	0	0	0	0	0	127	0	127	0	0
	W Br Gounamitz	5100074838P	0	0	0	0	1655	0	0	382	0	0
	W Br Gounamitz	5100076838P	42	0	722	0	594	0	0	0	0	0
	W Br Gounamitz	5100077838P	0	0	891	0	0	0	0	1146	0	0
	W Br Gounamitz	5100078838P	95	0	1050	0	637	0	0	191	0	0
	Five Fingers Bk	5100079838P	0	0	0	0	0	0	0	0	0	0
	Five Fingers Bk	5100080838P	0	0	255	0	0	0	0	0	0	0
	Little Main Res	5100081838P	0	0	0	0	0	0	0	0	0	0
	Five Fingers Bk	5100084838P	0	0	0	0	764	0	0	0	0	0
	Five Fingers Bk	5100086838P	0	0	127	0	0	0	0	0	0	0
	Serpentine Lake	5105002838P	0	0	467	0	0	0	0	1316	42	0
	Serpentine Lake	5105003838P	0	0	1019	0	0	0	0	127	0	0
LICENSE AVERAGE			42	0	840	0	621	353	0	1452	13	4
PROVINCIAL AVERAGE			274	59	919	29	255	149	1	1365	342	45

TABLE 6-83
PLANTATION ASSESSMENT SUMMARY-
1983 PLANTATIONS

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Upsalquitch	1011107838P	Shark Fin Barrels	20	jP	PP	7	81	18	72	47
	1011108838P	Shark Fin Barrels	83	bS	PP	12	82	18	71	40
	1011109838P	Shark Fin Barrels	160	bS	BR	9	94	19	89	46
	1011110838P	Shark Fin Barrels	136	bS	PP	19	88	35	88	64
				jP	PP	7	91	19	88	57
	1011111838P	Shark Fin Barrels	45	bS	PP	12	87	28	83	50
	1011112838P	Shark Fin Barrels	85	bS	BR	25	60	31	58	52
	1011113838P	Shark Fin Barrels	62	bS	BR	24	56	29	55	48
	1011114838P	Shark Fin Barrels	36	bS	PP	13	88	20	80	39
	1011115838P	Shark Fin Barrels	22	bS	PP	12	88	22	79	62
	1011116838P	Shark Fin Barrels	80	tL	PP	23	85	34	85	90
Nepisiguit	1020014838P	C & H Plow	90	bS	PP	14	90	31	89	61
	1020234838P	Burn&Disc Trencher	40	jP	PP	8	88	20	85	55
	1020235838P	Burn&Disc Trencher	44	bS	PP	14	96	31	96	67
	1020240838P	C & H Plow	42	bS	PP	13	75	21	68	36
	1020241838P	C & H Plow	51	bS	PP	12	72	20	69	34
	1020245838P	Burn&Disc Trencher	12	bS	PP	11	97	17	97	29
	1020246838P	Disc Trencher	71	bS	PP	13	92	24	86	46
	1020254838P	Shark Fin Barrels	31	bS	PP	10	81	22	81	32
	1020271838P	Disc Trencher	20	bS	PP	16	100	26	100	43
	1020276838P	Burn&Disc Trencher	90	jP	PP	5	95	18	95	65
	1020278838P	Burn&Disc Trencher	108	bS	PP	11	91	20	86	41
	1020290838P	Shark Fin Barrels	25	bS	PP	11	87	29	83	49
	1020295838P	C & H Plow	129	bS	PP	15	96	32	96	65
	1029585838P	C & H Plow	101	bS	PP	13	86	30	82	63
	1029588838P	C & H Plow	44	jP	PP	7	95	17	94	57
	1029589838P	Burn & C & H Plow	22	jP	PP	6	92	17	92	66
	1029636838P	C & H Plow	122	bS	PP	13	88	24	88	44

TABLE 6-83. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Lower Miramichi	203032983BP	C & H Plow	7	bS	BR	18	93	27	73	55
	203033083BP	C & H Plow	102	bS	PP	7	89	18	79	44
	203033183BP	C & H Plow	39	bS	BR	24	59	28	50	46
	203033283BP	C & H Plow	19	bS	BR	22	65	28	6	52
	203033383BP	C & H Plow	47	bS	BR	22	61	25	56	44
				bS	PP	6	100	12	90	39
	203033483BP	C & H Plow	20	bS	PP	9	93	20	89	51
	203033583BP	C & H Plow	33	bS	PP	8	76	18	76	44
	203033683BP	Finnish Plow	76	bS	BR	28	79	37	68	52
				jP	BR	15	91	32	91	89
	203033783BP	Finnish Plow	77	jP	BR	17	83	39	79	116
	203033883BP	C & H Plow	79	jP	BR	16	89	32	79	84
	203033983BP	C & H Plow	77	bS	PP	9	76	24	72	47
	203034083BP	C & H Plow	15	bS	PP	8	86	22	70	39
	203034183BP	C & H Plow	31	bS	PP	10	88	26	84	50
	203034283BP	C & H Plow	27	jP	PP	7	76	17	75	53
	203034383BP	C & H Plow	44	jP	PP	6	88	14	85	49
	203034483BP	C & H Plow	23	jP	PP	10	100	22	100	71
	203034583BP	C & H Plow	47	jP	PP	6	89	17	87	64
	203034683BP	C & H Plow	28	jP	PP	5	93	14	81	53
	203034783BP	C & H Plow	41	jP	PP	7	94	14	83	48
	203034883BP	C & H Plow	45	jP	PP	6	76	15	73	29
	203034983BP	C & H Plow	81	jP	PP	4	65	11	58	26
	203035083BP	C & H Plow	9	jP	PP	5	43	11	43	40
	203035183BP	C & H Plow	19	jP	PP	7	79	12	59	39
	203035283BP	C & H Plow	11	jP	PP	7	80	14	80	49
	203035383BP	C & H Plow	21	jP	PP	6	88	14	85	39
	203035483BP	C & H Plow	7	jP	PP	6	86	13	81	48
	203035583BP	C & H Plow	13	jP	PP	5	76	15	76	50

TABLE 6-83. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Lower Miramichi	2030356838P	C & H Plow	25	jP	PP	6	65	14	63	47
	2030360838P	C & H Plow	49	jP	PP	6	87	14	86	58
Upper Miramichi	1040510838P	Burn&Disc Trencher	158	bS	PP	9	89	23	86	42
				jP	BR	15	69	32	69	97
				jP	SL	25	84	38	84	101
				rP	PP	5	84	10	58	19
	2040005838P	Finnish Plow	72	bS	PP	7	52	22	48	54
				jP	PP	8	67	22	67	81
	2040008838P	C & H Plow	77	jP	PP	9	83	17	78	72
				jP	SB	23	94	33	92	97
	2040500838P	Finnish Plow	180	bS	PP	9	100	23	100	52
				jP	PP	19	88	26	86	92
				jP	SB	22	94	38	94	110
	2040501838P	C & H Plow	194	bS	PP	12	86	32	82	59
				jP	PP	10	78	28	76	95
				jP	SL	28	93	41	93	113
	2040502838P	Marden Roller	40	jP	PP	9	88	20	87	62
	2040503838P	Burn & Crusher	201	bS	PP	18	87	29	87	46
				jP	PP	15	93	30	90	69
				rP	PP	7	84	13	79	25
Kent	2050202838P	C & H Plow	11	bS	PP	7	90	18	86	41
				jP	PP	0	100	17	97	55
	2050203838P	C & H Plow	30	bS	PP	8	95	16	93	42
	2050204838P	C & H Plow	50	bS	PP	8	90	20	89	39
				jP	PP	11	93	26	93	79
	2050205838P	C & H Plow	7	bS	PP	9	82	23	79	51
	2050206838P	C & H Plow	39	jP	PP	12	82	35	82	100

TABLE 6-83. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Queens Charlotte	206997283BP	Marden Roller	11	jP	PP	5	90	17	88	81
	206998983BP	Marden Roller	83	jP	PP	11	85	15	76	72
	206999283BP	Crusher	56	bS	BR	26	81	32	75	62
	206999383BP	Crusher	80	bS	PP	20	85	27	82	44
				jP	PP	6	90	14	90	62
	206999483BP	Marden Roller	23	bS	PP	11	84	18	84	33
	206999883BP	Crusher	176	bS	BR	23	59	33	55	49
				bS	PP	11	94	23	94	42
				jP	PP	18	88	38	87	99
	306998683BP	Crusher	58	bS	BR	26	58	38	55	67
	306998783BP	Crusher	196	bS	BR	28	89	36	85	67
	306998883BP	Marden Roller	566	bS	BR	27	67	33	63	53
				bS	PP	14	95	26	91	50
				jP	BR	28	85	51	84	132
	306998883BP	Crusher	566	jP	PP	13	91	27	90	92
	406000983BP	Shark Fin Barrels	88	wS	BR	22	68	29	65	58
	406002583BP	Shark Fin Barrels	34	bS	BR	27	86	32	83	69
				wS	BR	25	100	34	100	78
	406002883BP	No-site Preparation	32	bS	PP	10	98	19	96	48
				wS	BR	21	57	27	57	43
	406002983BP	Shark Fin Barrels	11	wS	BR	21	83	29	76	50
	406993883BP	Bracke	137	bS	PP	12	90	31	90	64
	406994083BP	Bracke	106	bS	PP	16	94	29	94	57
	406994183BP	Shark Fin Barrels	96	bS	BR	30	83	42	81	83
	406994583BP	Shark Fin Barrels	64	wS	BR	19	57	29	53	54
				jP	BR	26	88	46	81	115
	406994683BP	Shark Fin Barrels	27	wS	BR	20	84	32	78	59
	406994783BP	No-site Preparation	200	bS	BR	22	60	34	58	62
				wS	BR	27	73	36	73	70
				jP	BR	27	98	58	94	151

TABLE 6-83. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Queens Charlotte	406994883BP	Bracke	18	wS	BR	26	63	30	51	46
	406994983BP	No-site Preparation	57	jP	PP	19	96	38	94	106
	406995083BP	Shark Fin Barrels	44	bS	BR	27	91	33	89	62
				bS	PP	13	90	29	86	68
Fundy	307000783BP	Crusher	129	jP	BR	30	95	43	90	107
	307006283BP	Crusher	108	bS	BR	27	85	32	85	70
	307006683BP	Crusher	147	wS	BR	25	81	28	76	61
				jP	BR	23	89	41	89	117
	307006783BP	Crusher	72	bS	BR	26	60	33	57	62
				jP	SB	12	92	29	92	115
	307006883BP	Crusher	40	jP	BR	27	82	41	80	120
	307998883BP	Bracke	69	jP	PP	16	95	31	94	77
	307998983BP	Shark Fin Barrels	88	jP	SB	9	86	24	82	68
	307999083BP	Shark Fin Barrels	36	jP	SB	16	100	30	100	83
	307999183BP	Marden Roller	196	bS	BR	24	53	29	49	41
				jP	PP	16	88	31	88	77
	307999283BP	C & H Plow	152	jP	BR	26	90	41	86	97
	307999383BP	Crusher	33	jP	SB	12	93	29	93	89
	307999683BP	Shark Fin Barrels	27	bS	BR	34	41	39	35	63
York	408100583BP	Shark Fin Barrels	140	bS	BR	24	74	26	66	50
	408100683BP	Shark Fin Barrels	275	bS	BR	20	67	32	62	73
				bS	PP	12	84	31	76	63
	408100783BP	C & H Plow	88	bS	PP	14	85	26	79	39
	408100883BP	Shark Fin Barrels	64	bS	PP	16	89	28	85	54
	408100983BP	Shark Fin Barrels	57	bS	PP	10	100	23	100	51
Carleton	409900183BP	Shark Fin Barrels	79	bS	PP	11	80	26	76	53
	409900383BP	Shark Fin Barrels	36	jP	PP	9	79	19	76	78

TABLE 6-83. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Carleton	4099004838P	Shark Fin Barrels	113	bS	BR	24	61	28	61	62
				bS	PP	14	94	21	94	59
				jP	PP	7	94	19	89	68
	4099005838P	Shark Fin Barrels	169	jP	PP	7	73	18	44	63
	4099006838P	Shark Fin Barrels	23	bS	PP	11	77	22	69	51
	4099007838P	Shark Fin Barrels	55	bS	BR	23	71	29	66	72
	4099008838P	Shark Fin Barrels	52	bS	BR	21	71	23	63	38
Restigouche	5100054838P	Disc Trencher	12	bS	PP	14	68	20	63	49
Tobique	5100055838P	C & H Plow	7	bS	PP	8	95	20	68	50
	5100056838P	C & H Plow	38	bS	PP	13	58	26	47	53
	5100058838P	C & H Plow	185	bS	PP	10	89	20	79	41
	5100062838P	C & H Plow	97	bS	PP	9	61	16	54	35
	5100064838P	C & H Plow	34	bS	PP	9	49	16	42	36
	5100065838P	C & H Plow	22	bS	PP	9	79	19	79	32
	5100066838P	C & H Plow	3	bS	PP	9	82	19	53	42
	5100067838P	C & H Plow	48	bS	PP	11	73	23	60	43
	5100073838P	Disc Trencher	19	bS	PP	8	80	16	35	34
	5100074838P	Disc Trencher	10	bS	PP	14	96	30	50	63
	5100076838P	Disc Trencher	25	bS	PP	12	83	30	68	63
	5100077838P	Disc Trencher	51	bS	PP	11	56	25	56	43
	5100078838P	Disc Trencher	34	bS	PP	14	80	25	69	52
	5100079838P	Disc Trencher	28	bS	PP	11	92	20	31	41
	5100080838P	Disc Trencher	5	bS	PP	11	79	24	79	46
	5100081838P	Disc Trencher	76	bS	PP	7	64	15	7	29
	5100084838P	Bracke	38	bS	PP	10	80	23	59	49
	5100086838P	Bracke	8	bS	PP	12	95	23	90	43
	5105002838P	C & H Plow	48	bS	PP	8	64	20	58	44
	5105003838P	C & H Plow	4	bS	PP	8	88	22	69	46

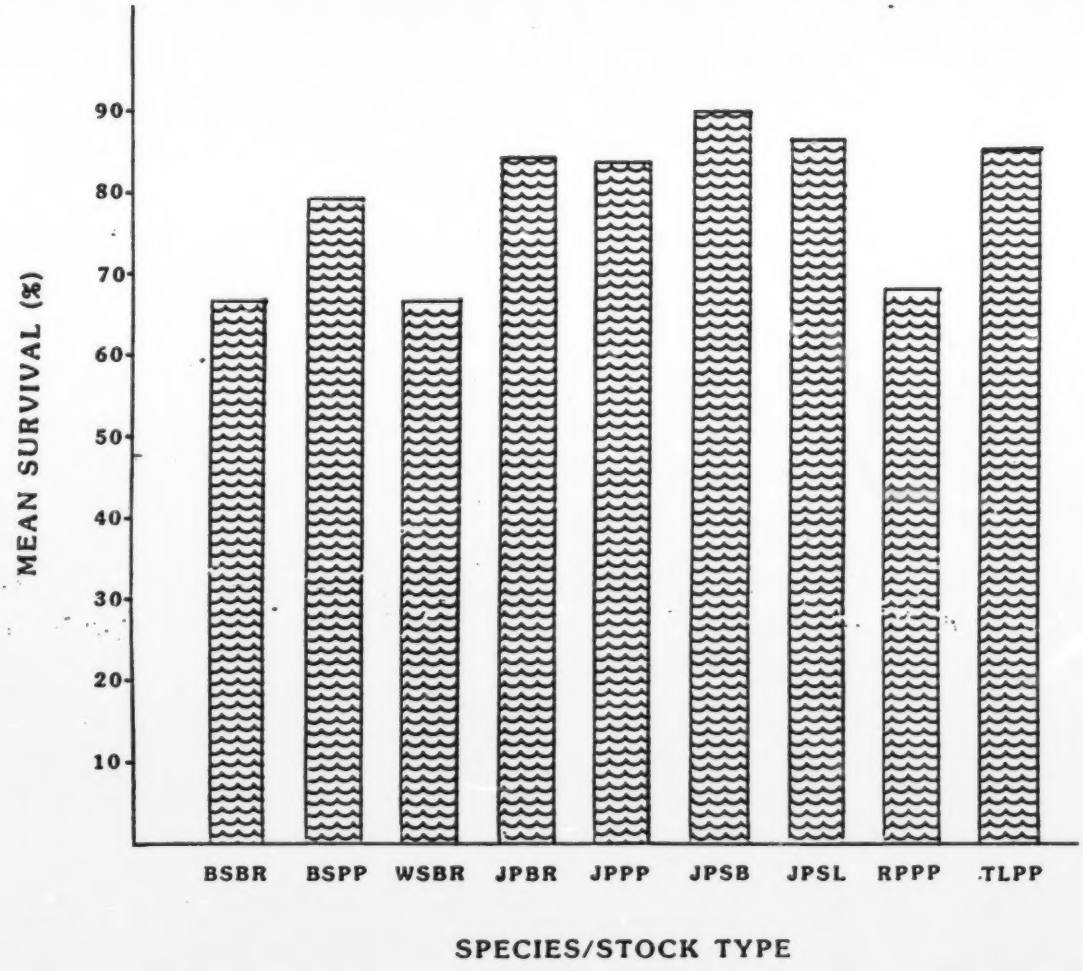

FIGURE 1-83. Third year mean survival percentages for planted trees grouped by species and stock type - 1983 Plantations.

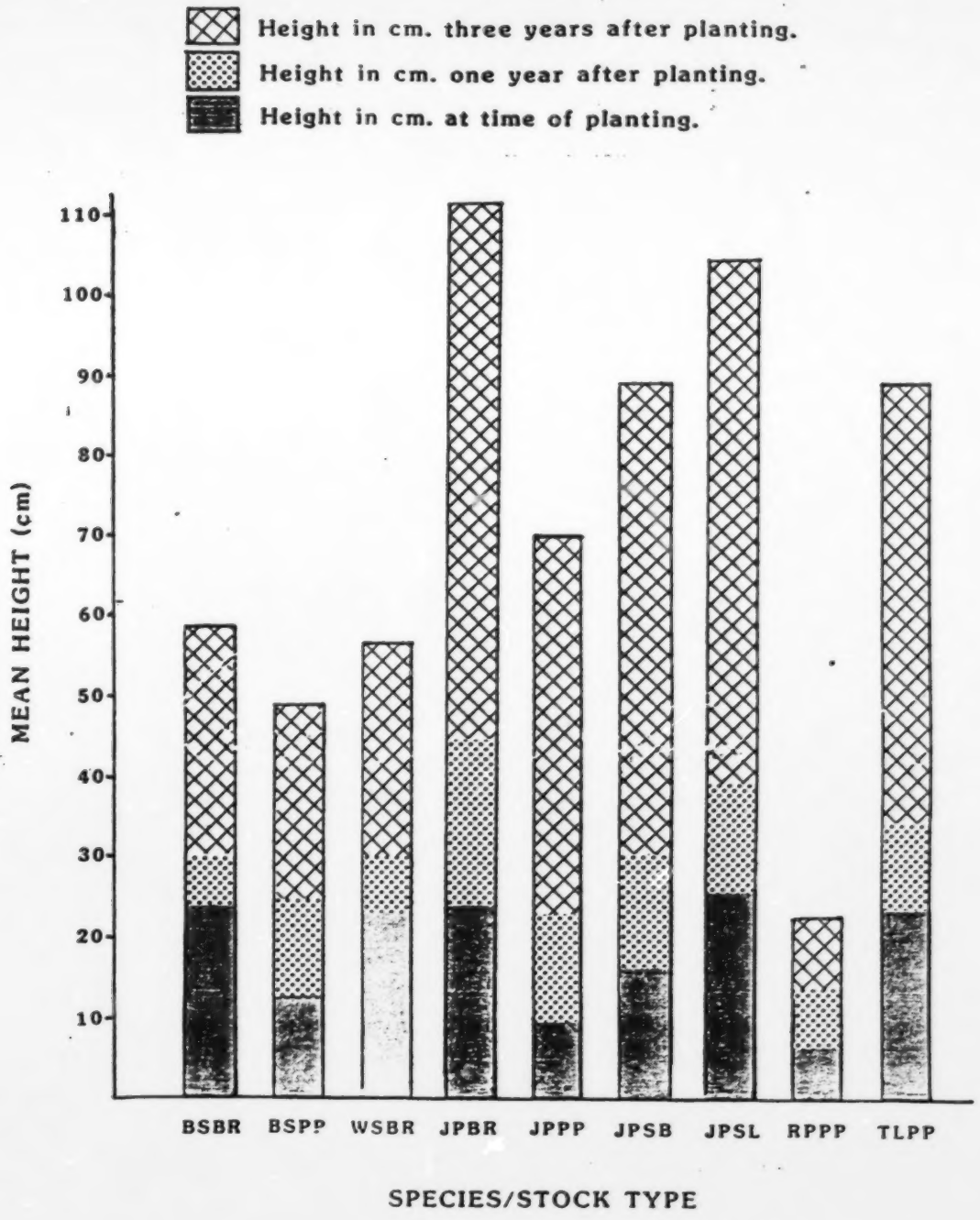

FIGURE 2-83. Mean heights for three year old planted trees grouped by species and stock type - 1983 Plantations.